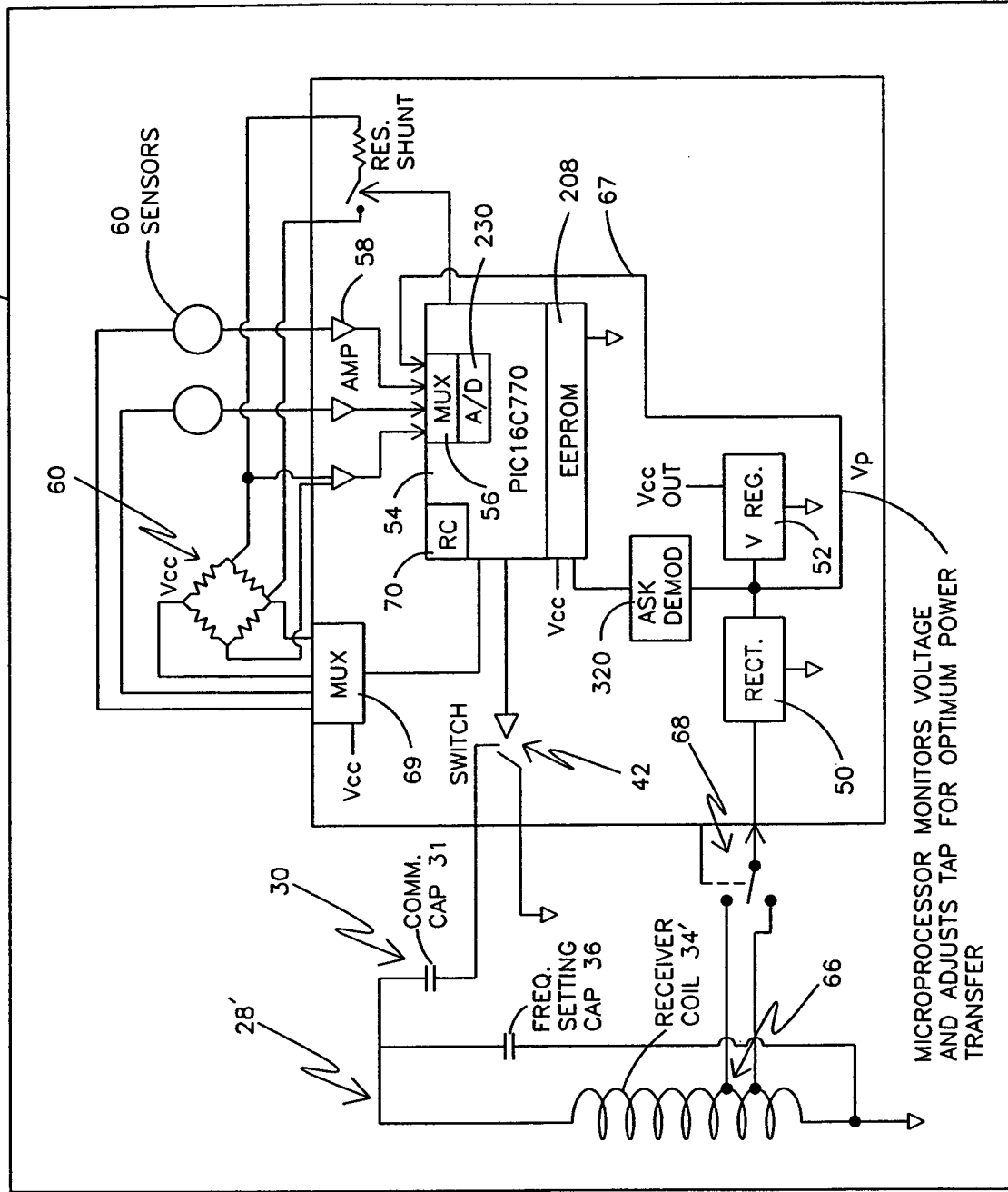


FIG. 1

115-005
2-29

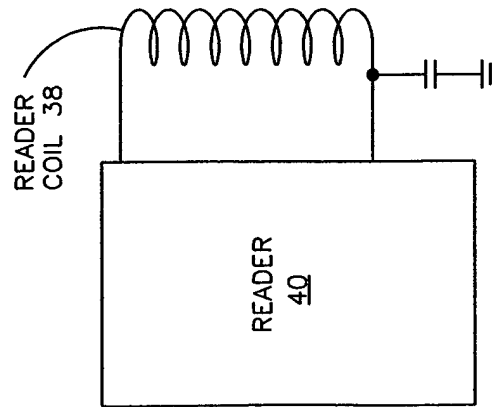
SENSOR TRANSPONDER



MICROPROCESSOR MONITORS VOLTAGE AND ADJUSTS TAP FOR OPTIMUM POWER TRANSFER

HERMETICALLY SEALED METAL BOX 72

FIG. 2a



SENSOR TRANSPONDER WITH TRANSMITTER 48b

115-005
3-29

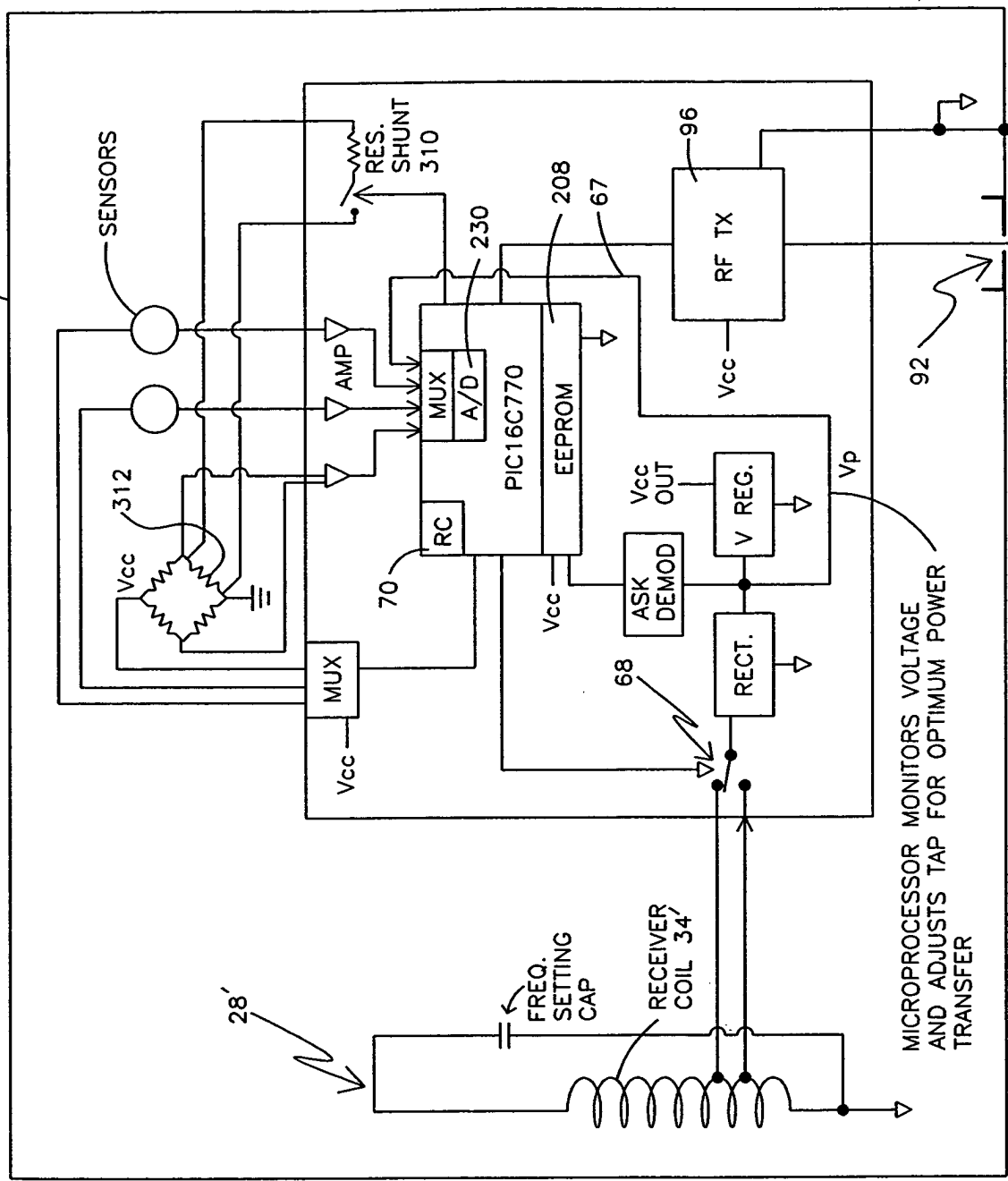
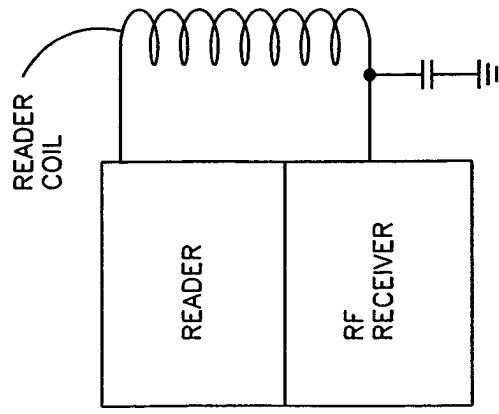


FIG. 2b



115-005
4-29

SENSOR TRANSPONDER WITH ENERGY STORAGE

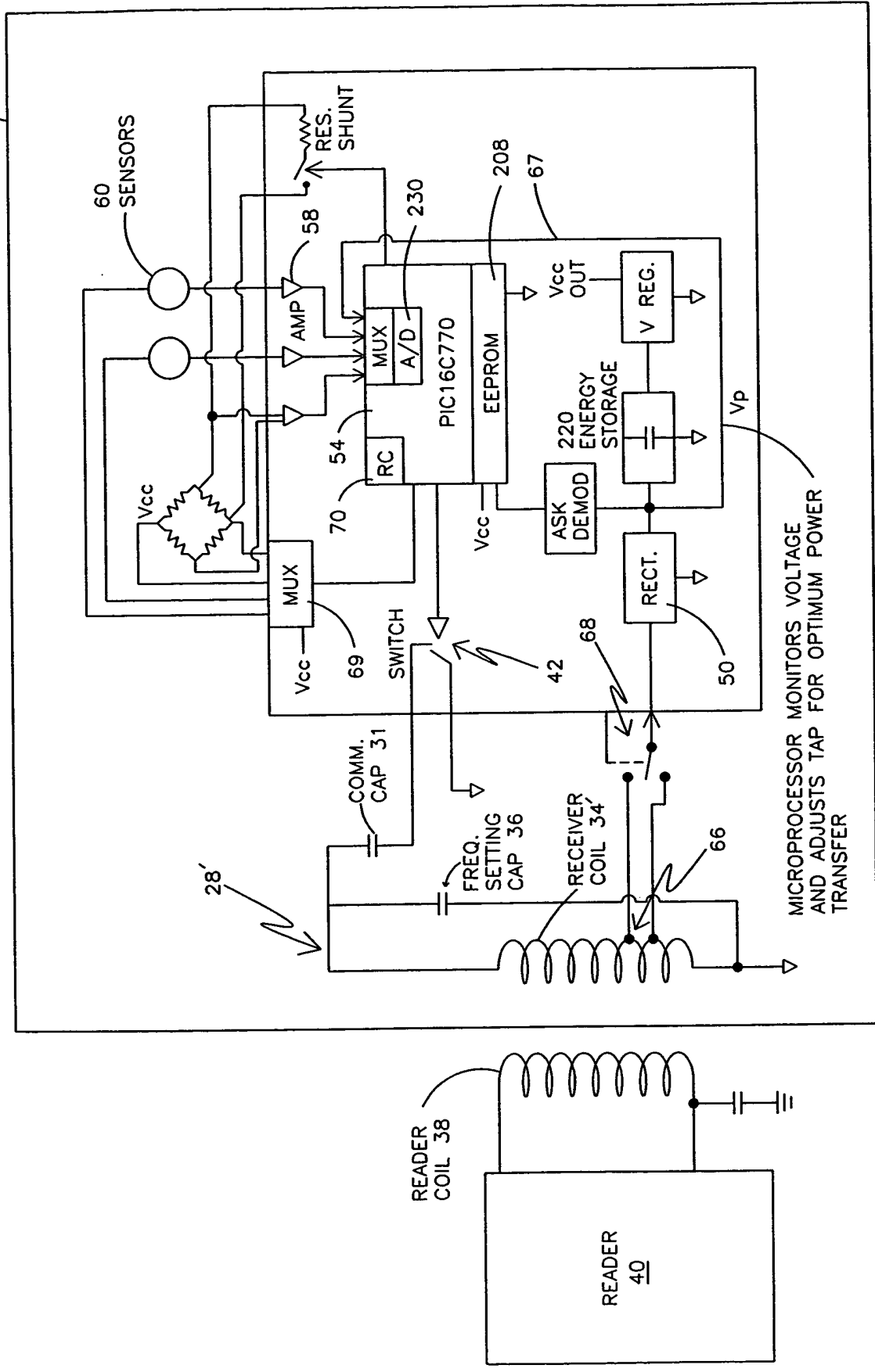


FIG. 2c

115-005

5-29

CAPACITIVE DIVIDER

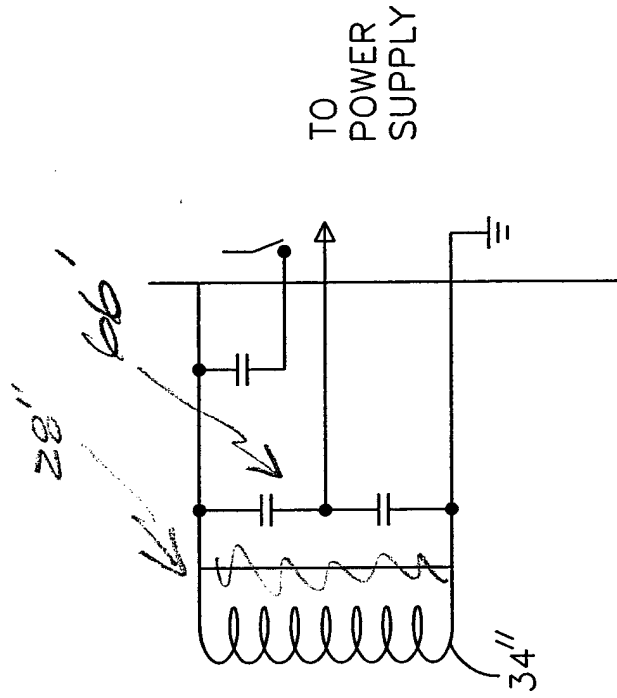


FIG. 2d

DVRT TRANSPONDER WITH RATIOMETRIC SIGNAL CONDITIONING

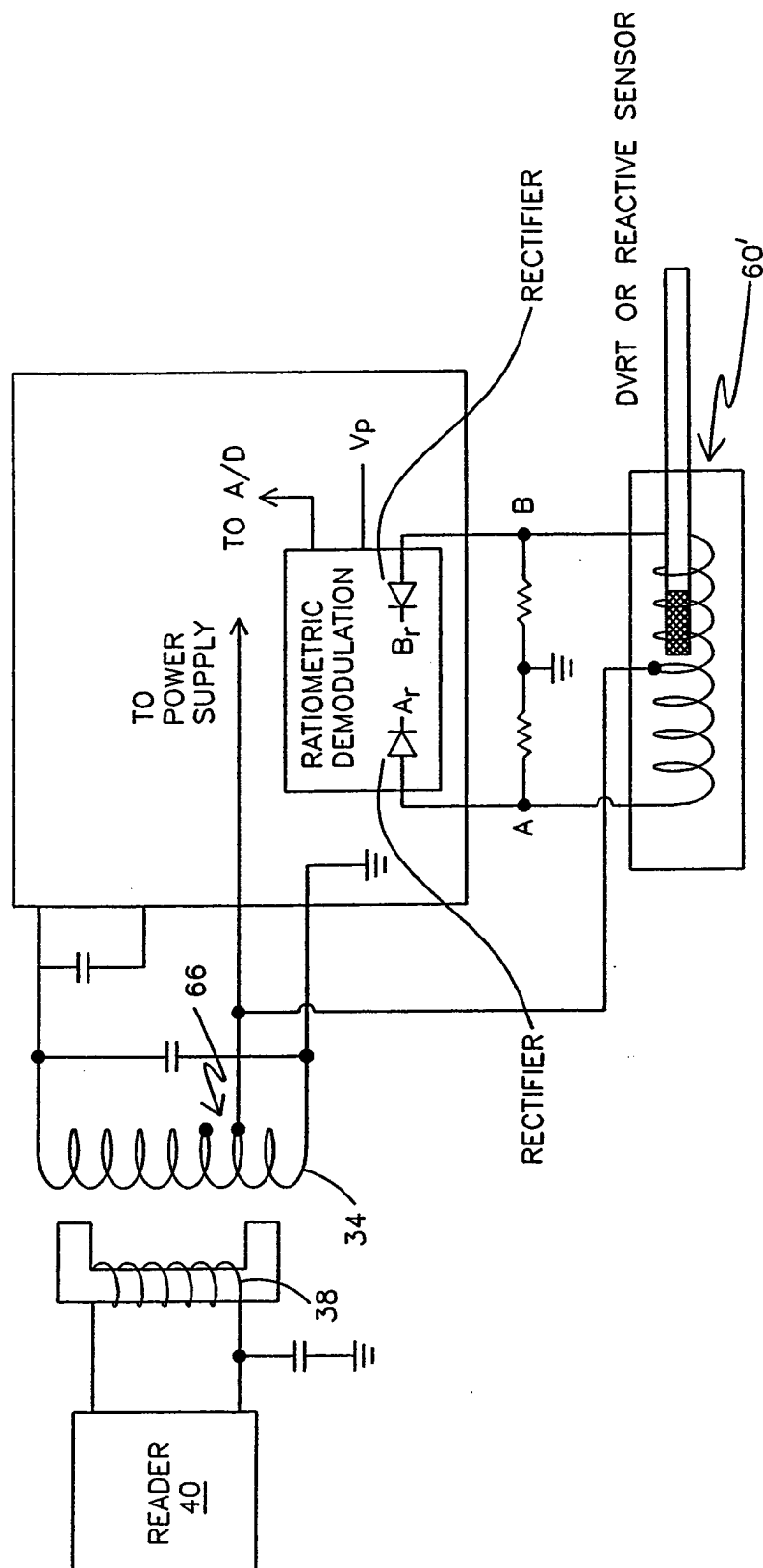


FIG. 3

115-005
6-29

115-005
7-29

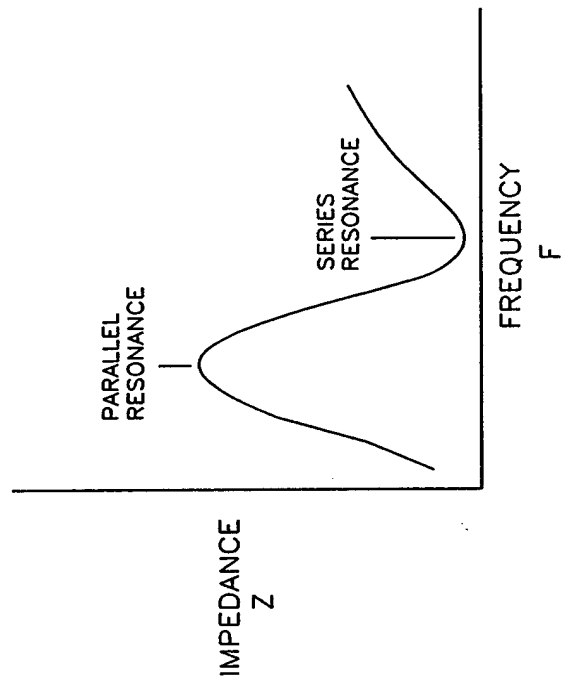


FIG. 4

EFFECT OF REACTANCE SWITCHING ON IMPEDANCE OF RESONANT TANK CIRCUIT WITH HIGH-Q

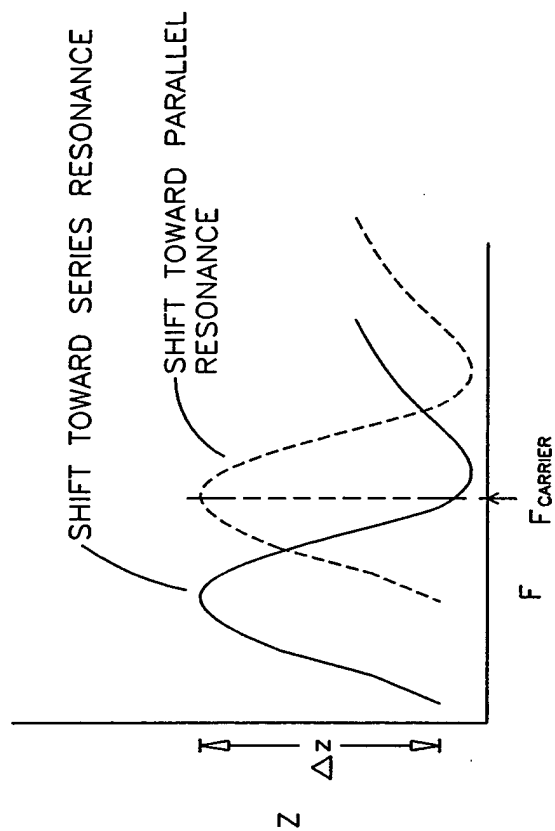


FIG. 5

115-005
8-29

115-005
9-29

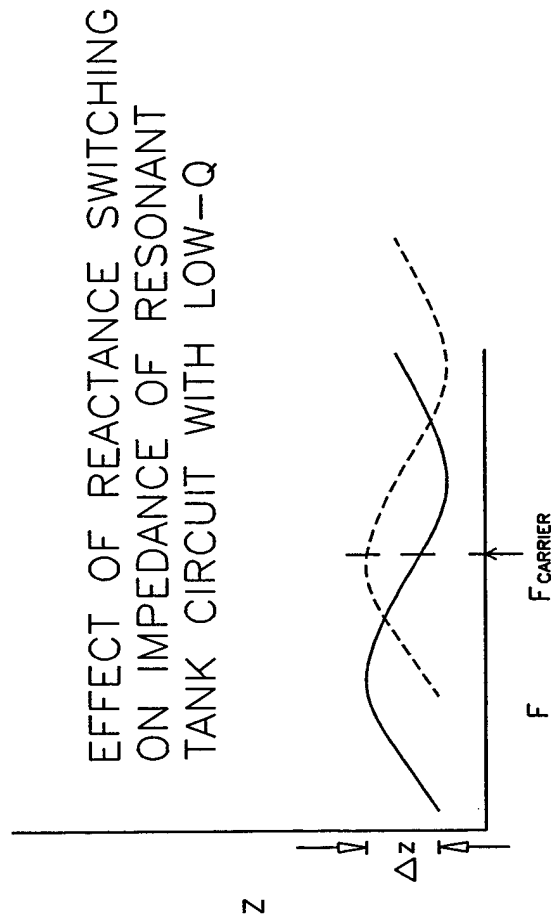


FIG. 6

115-005
10-29

JET ENGINE APPLICATION

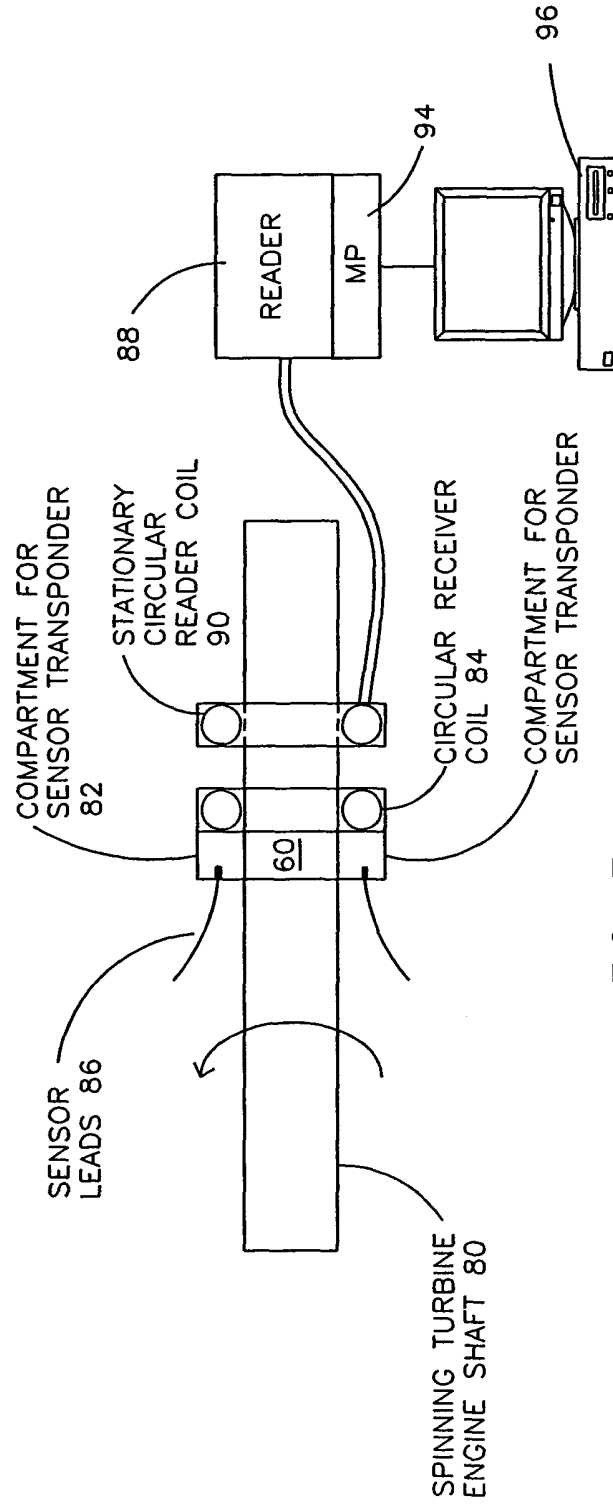


FIG. 7

MULTIPLE ADDRESSABLE TRANSPONDERS

115-005
11-29

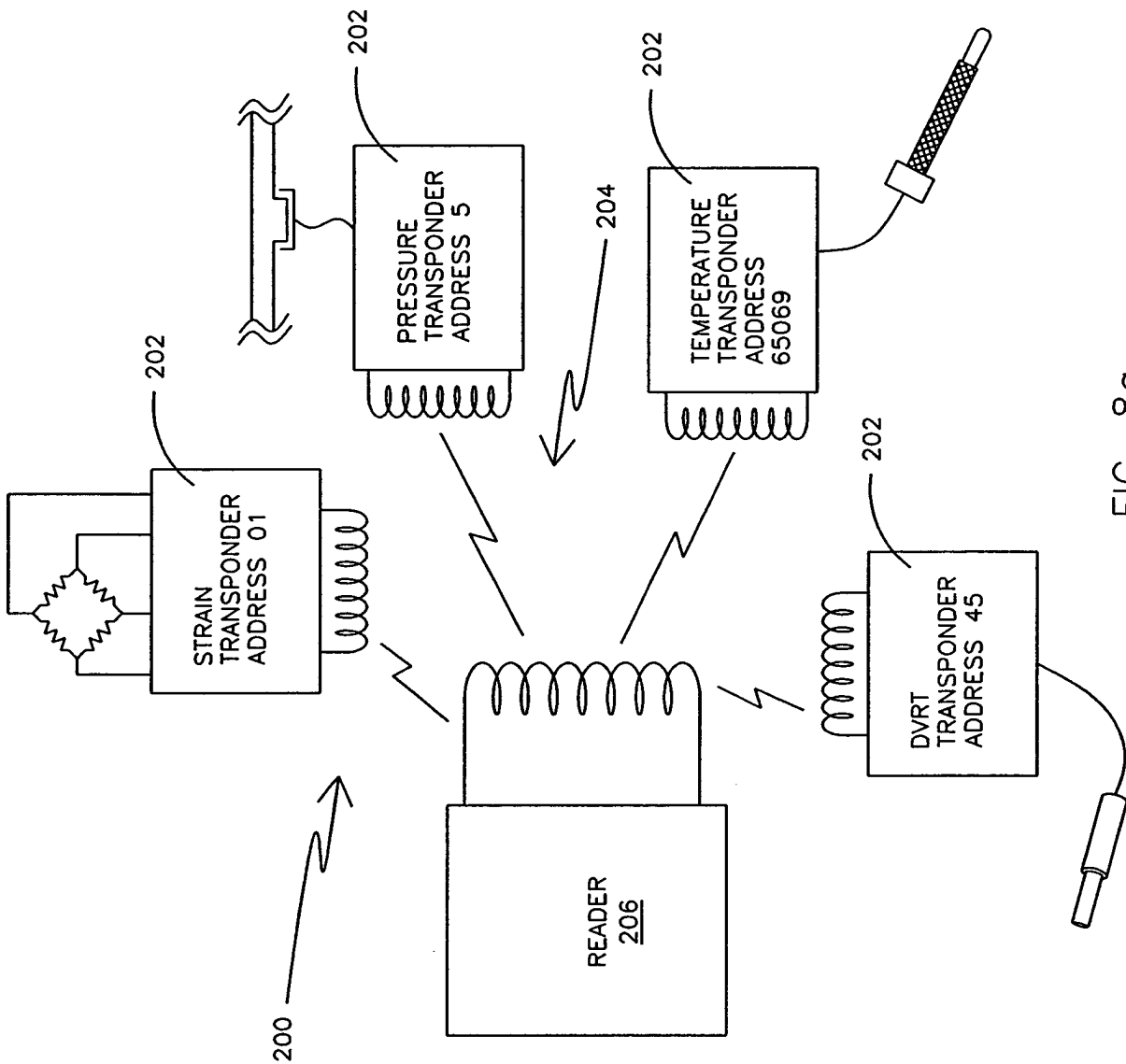


FIG. 8a

115-005

12-29

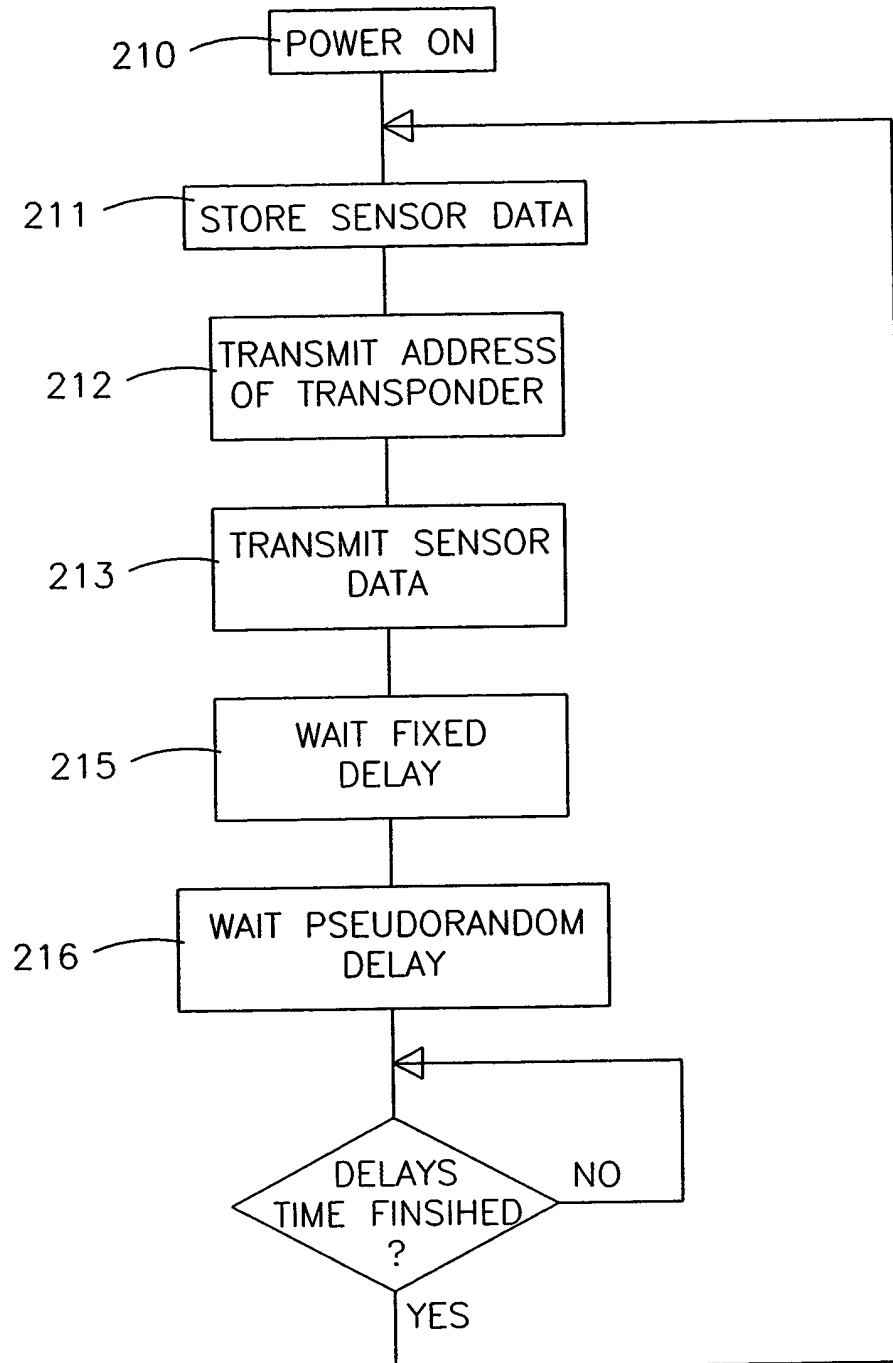


FIG. 8b

MULTIPLE ADDRESSABLE TRANSPONDERS ON A SINGLE RECEIVER COIL

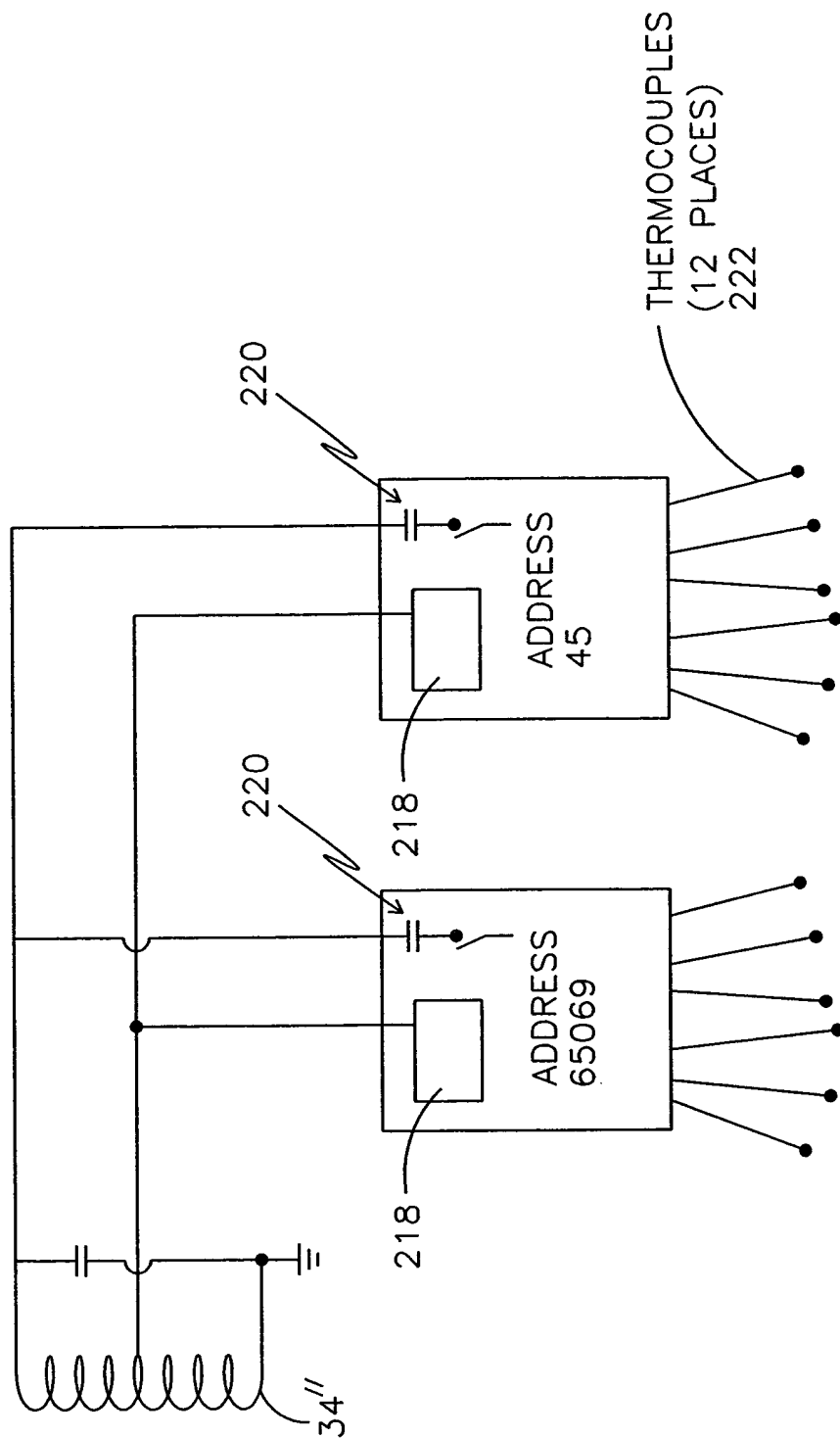
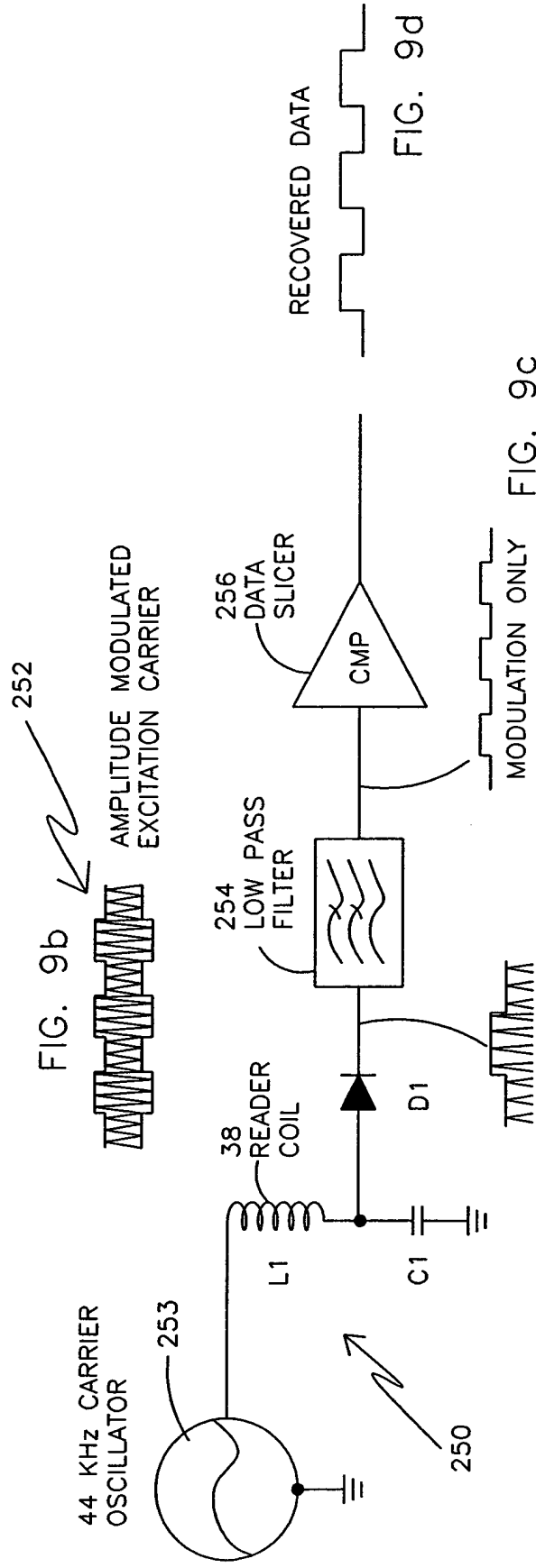


FIG. 8c

115-005
13-29

ENVELOPE DEMODULATION



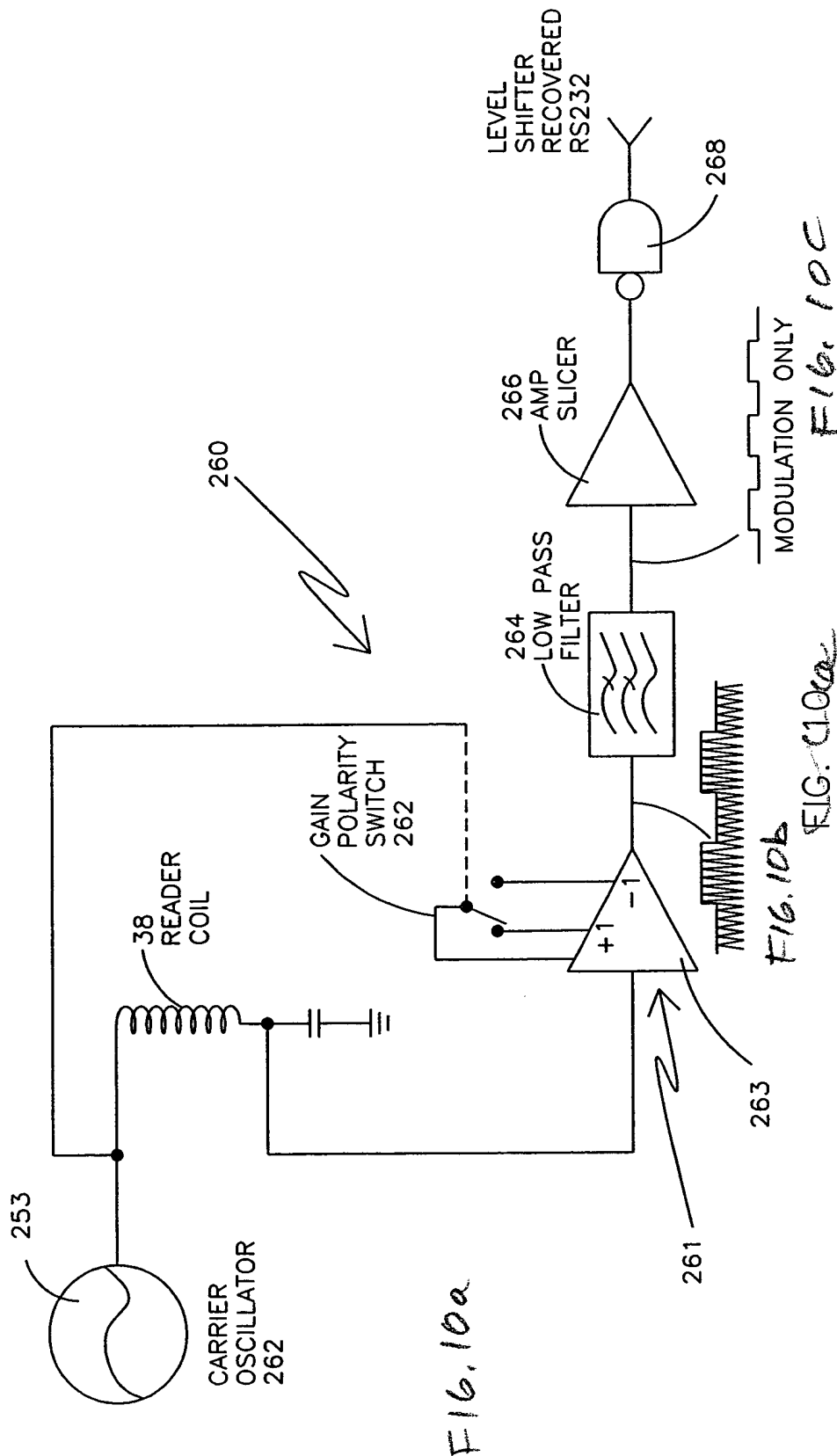
PRIOR ART

FIG. 9a

115-005
14-29

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SYNCHRONOUS AM DEMODULATION READER



115-005

16-29

IMPEDANCE BRIDGE DEMODULATION

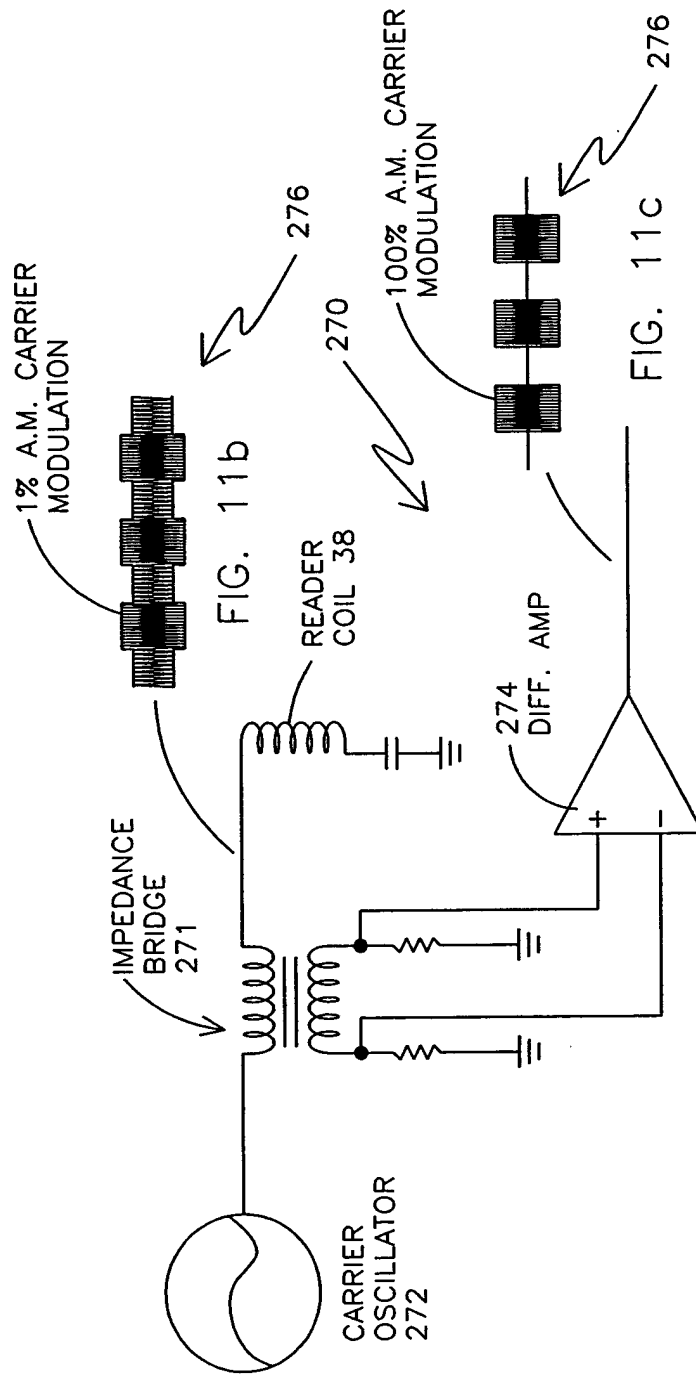


FIG. 11a

115-005
17-29

SYNCHRONOUS AM DEMODULATION READER USING AD698

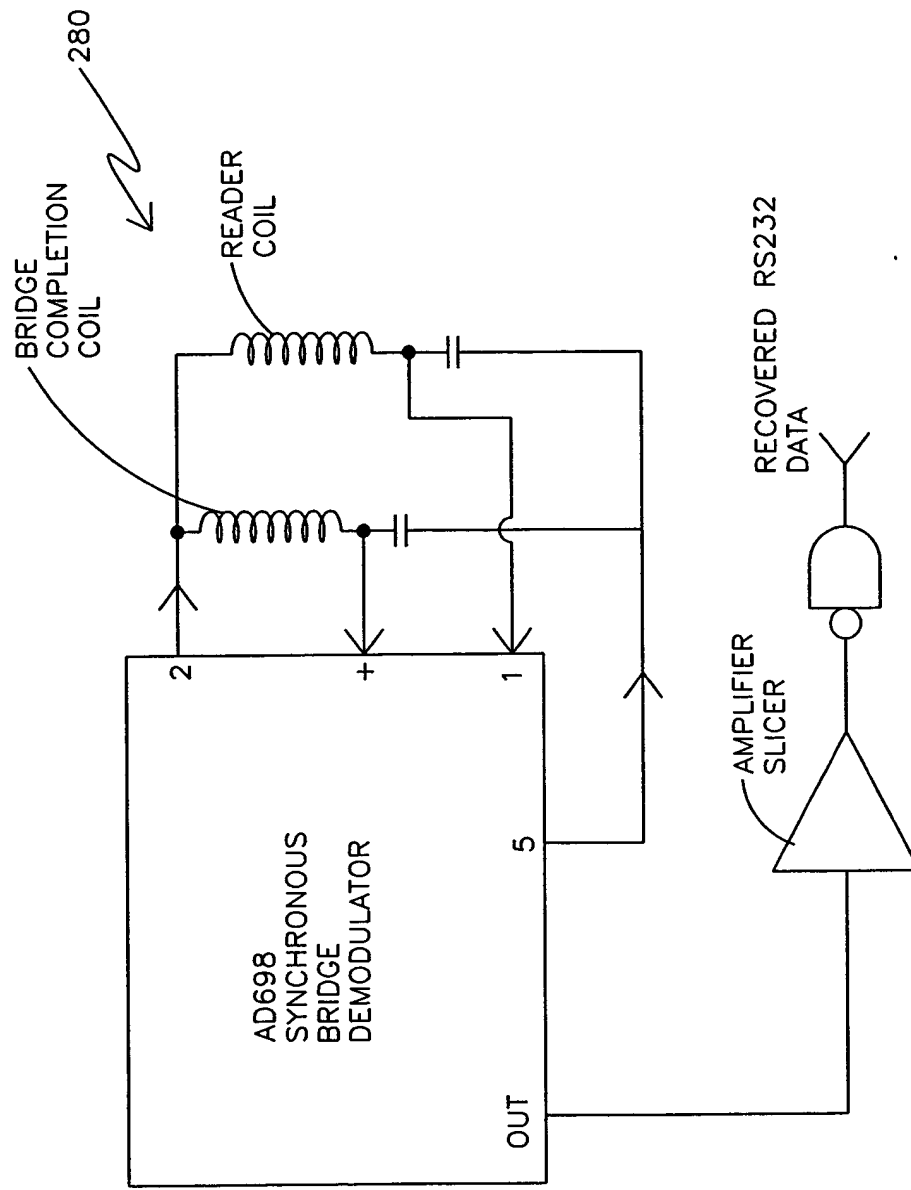


FIG. 12

115-005
18-29

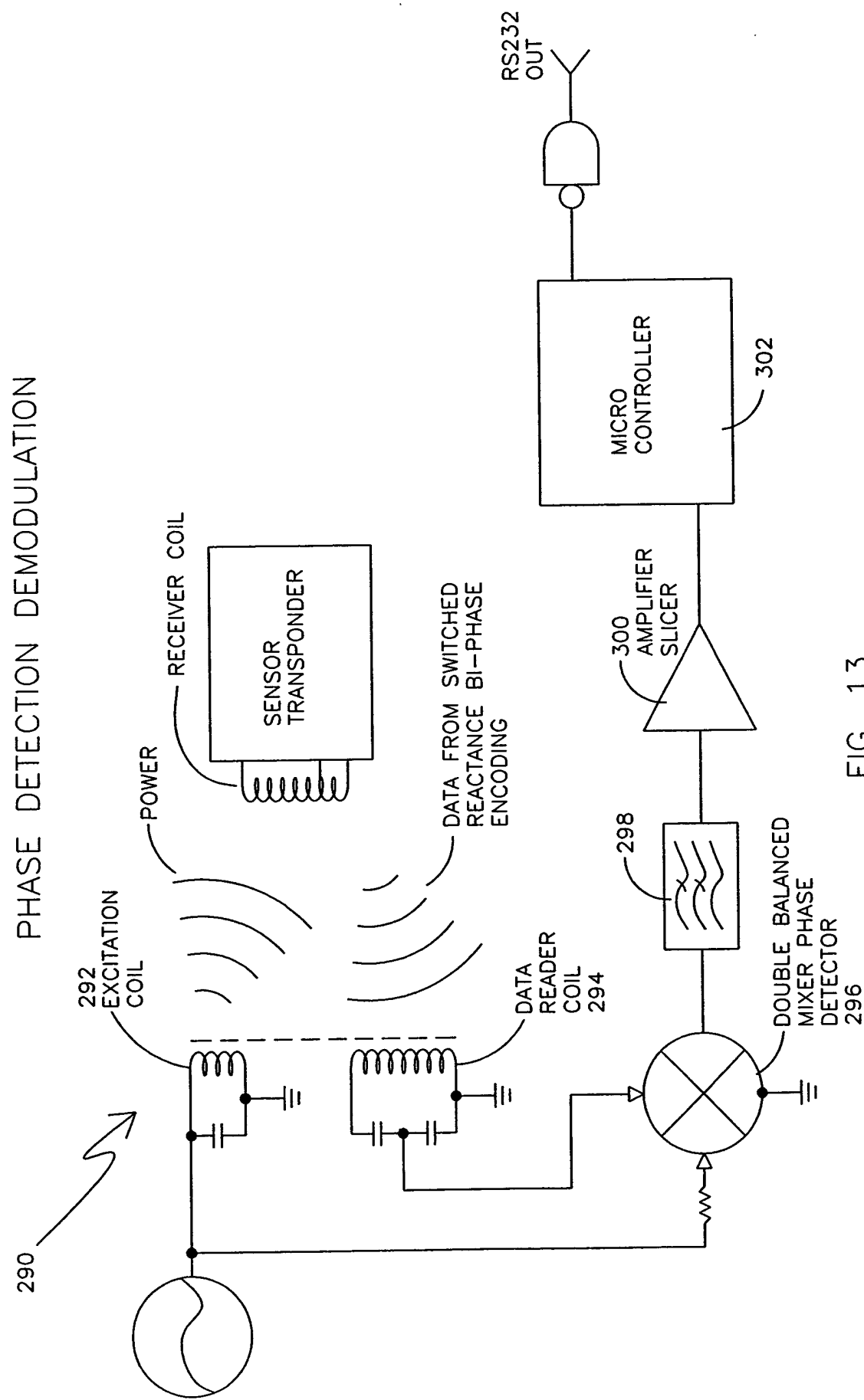


FIG. 13

115-005
19-29

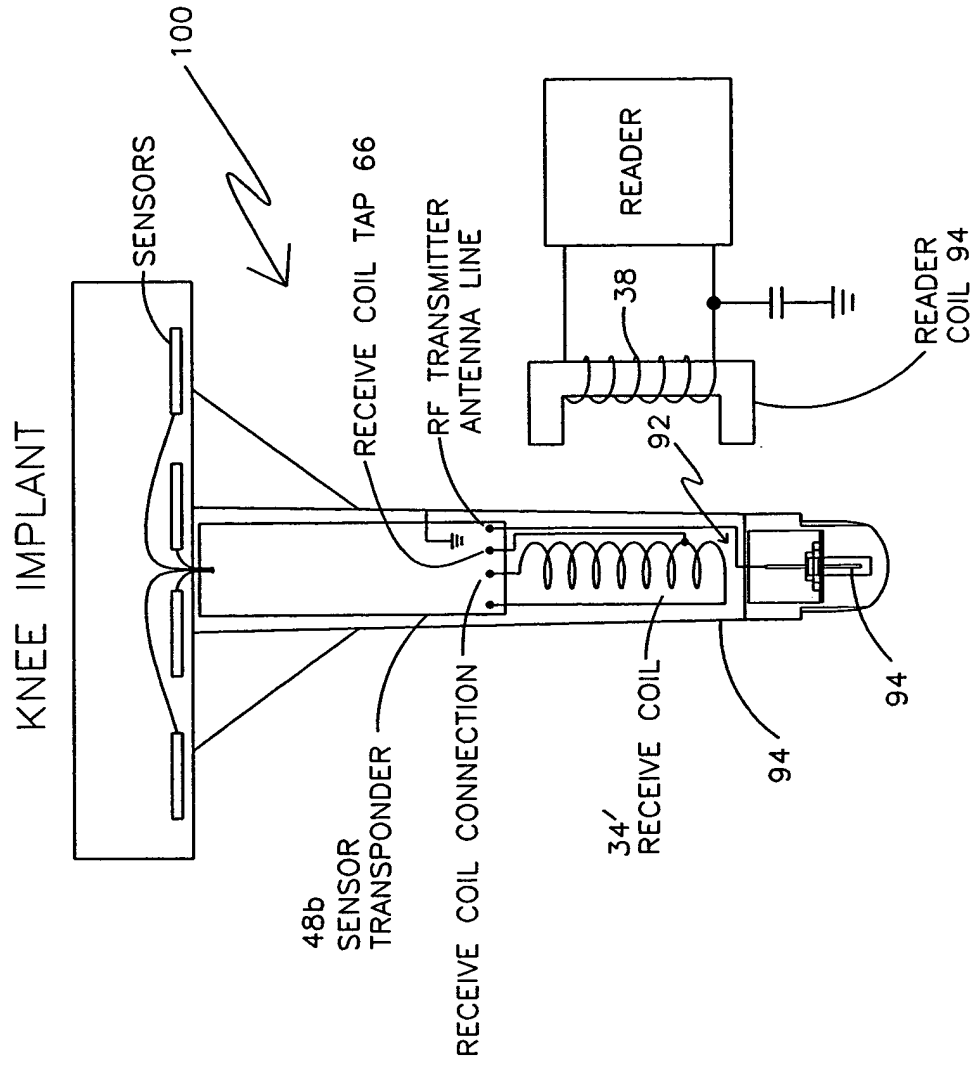


FIG. 14

SPINAL IMPLANT

102

ROD 60

(SUCH AS STRAIN GAUGES MOUNTED TO ROD INSIDE SENSORS HOUSING)

SWITCH 42

106 TANK CIRCUIT

RECEIVE COIL TAP 66

READER

HERMETIC WELD

48b' SENSOR TRANSDUCER

RECEIVE COIL CONNECTION

104 HOUSING

RECEIVE COIL 34'

HERMETIC WELD

READER COIL

FIG. 15

115-005
21-29

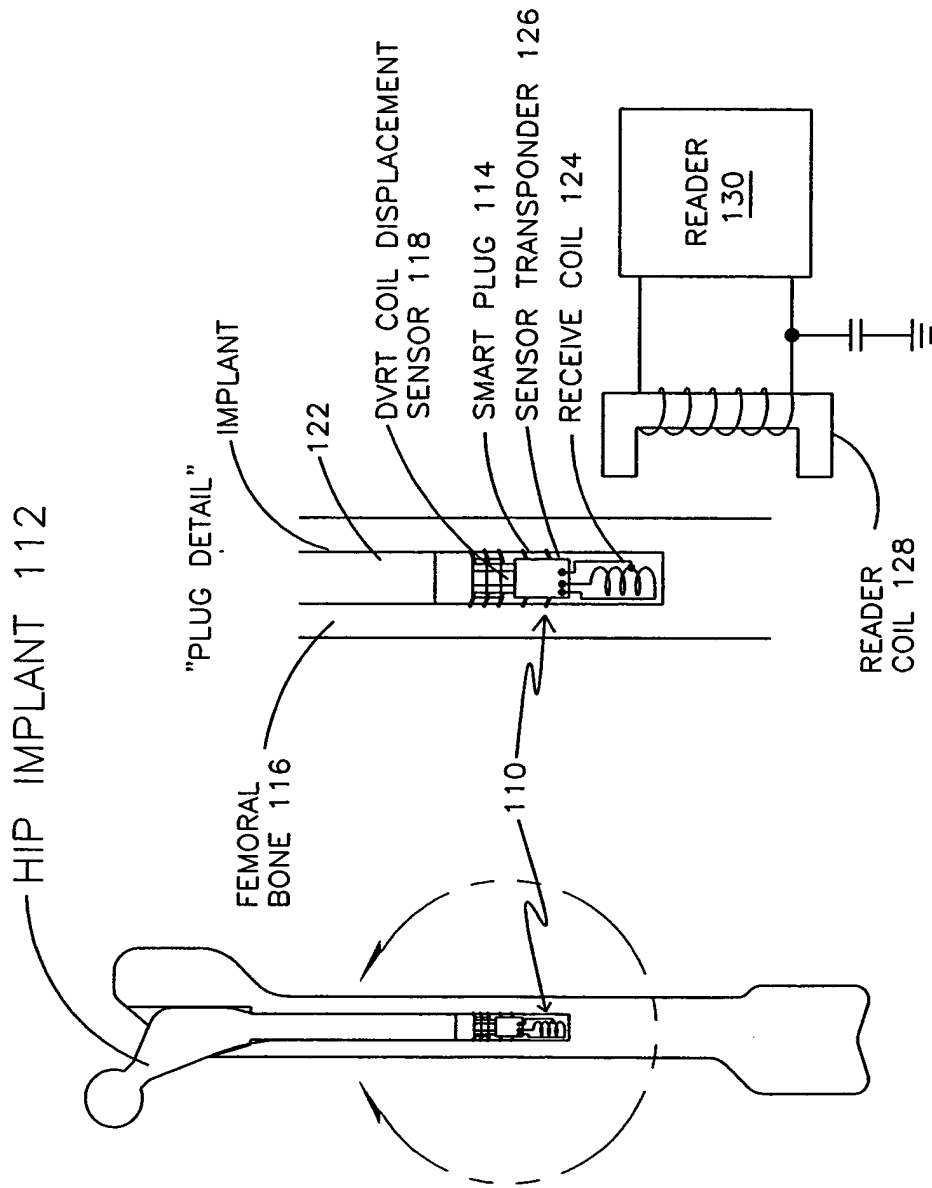
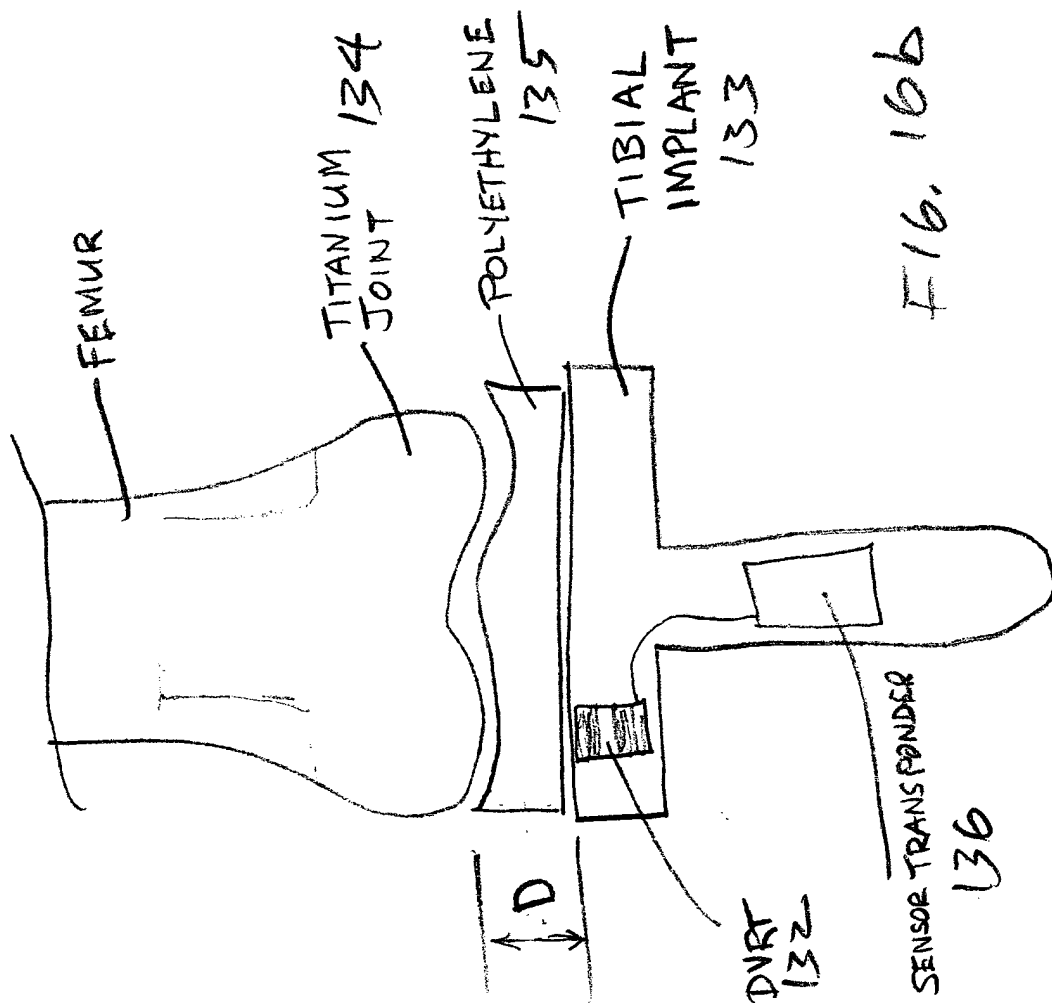


FIG. 16

115-005
22-29



REMOTELY POWERED AND INTERROGATED CORROSION MEASURING DVRT SYSTEM W/SPRING ELEMENT

115-005
23-29

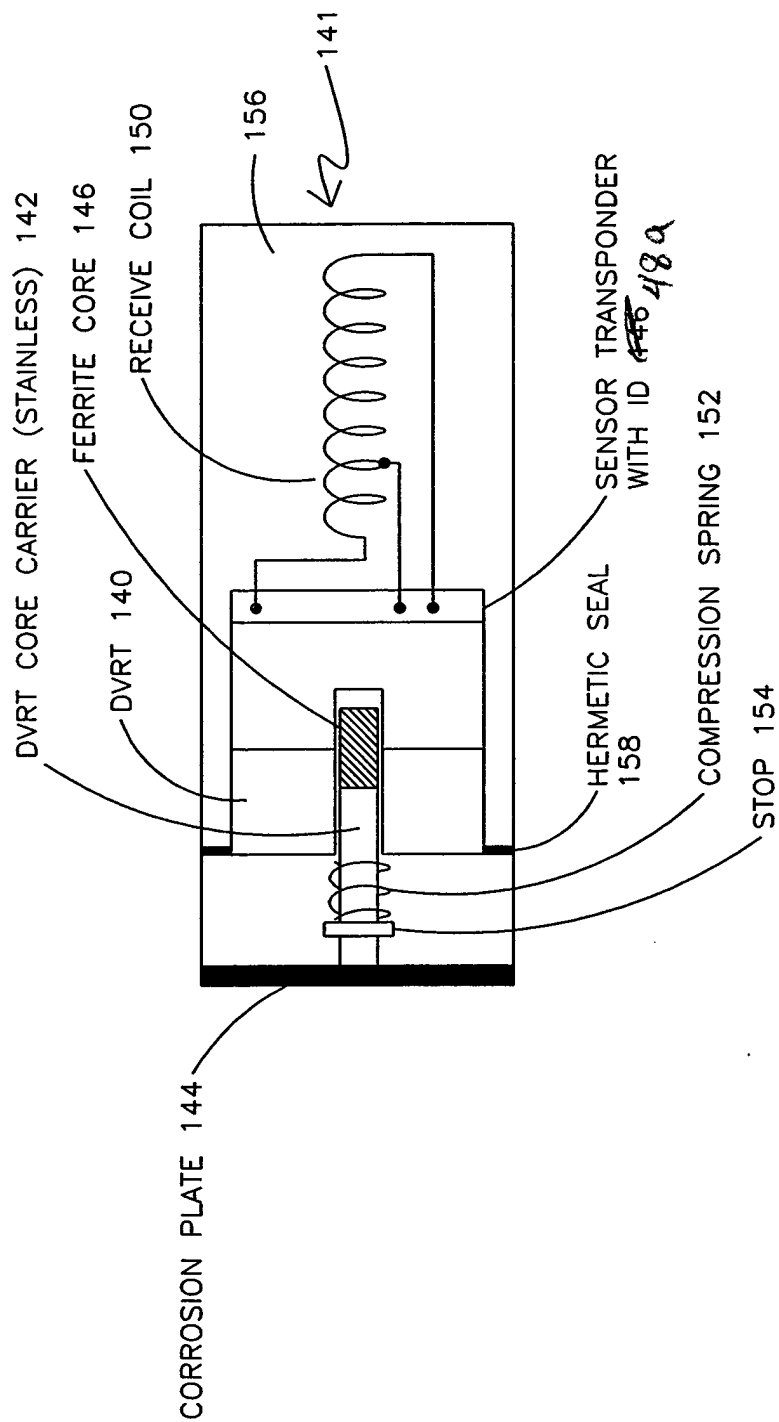


FIG. 17a

REMOTELY POWERED AND INTERROGATED CORROSION
MEASURING DVRT SYSTEM W/O SPRING ELEMENT

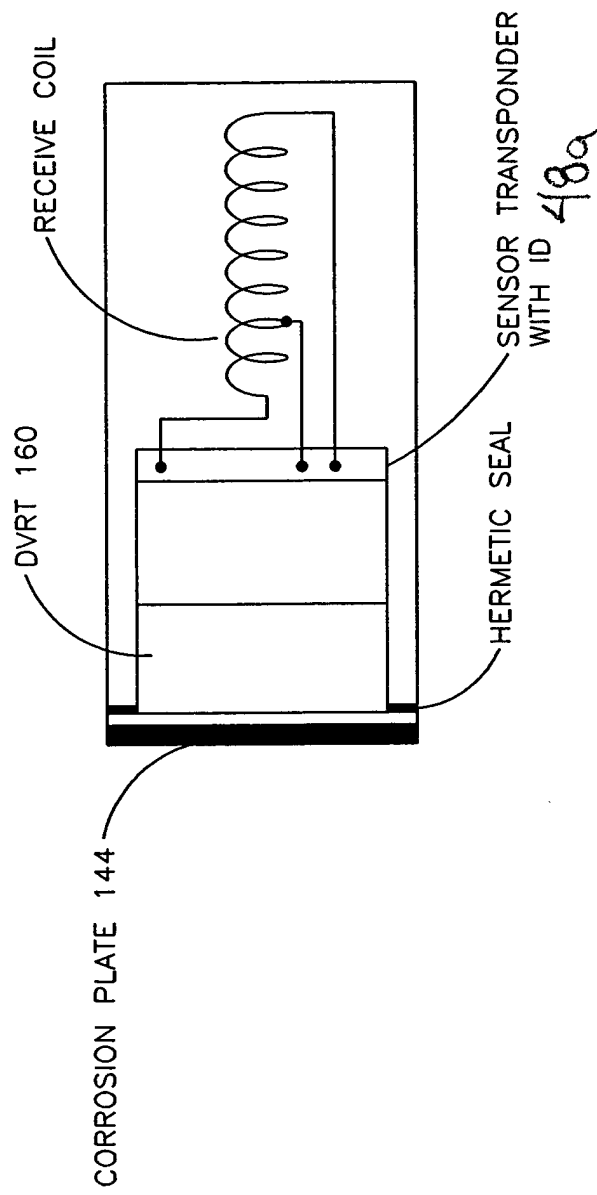


FIG. 17b

115-005
25-29

REMOTELY POWERED AND INTERROGATED CORROSION
MEASURING DVRT SYSTEM W/O SPRING ELEMENT

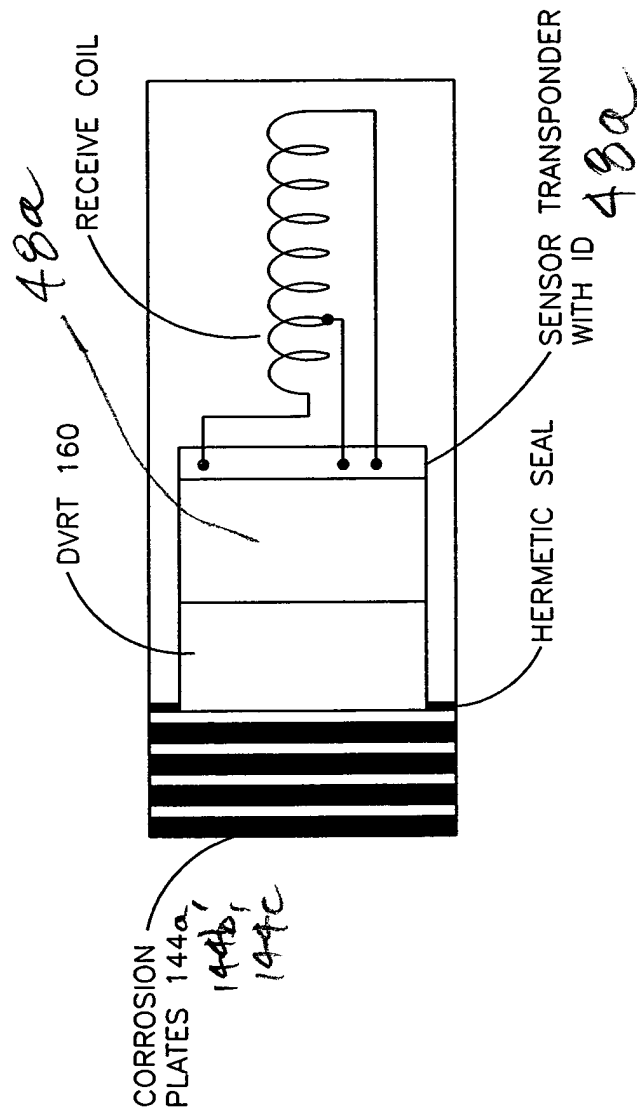


FIG. 17c

115-005
26-29

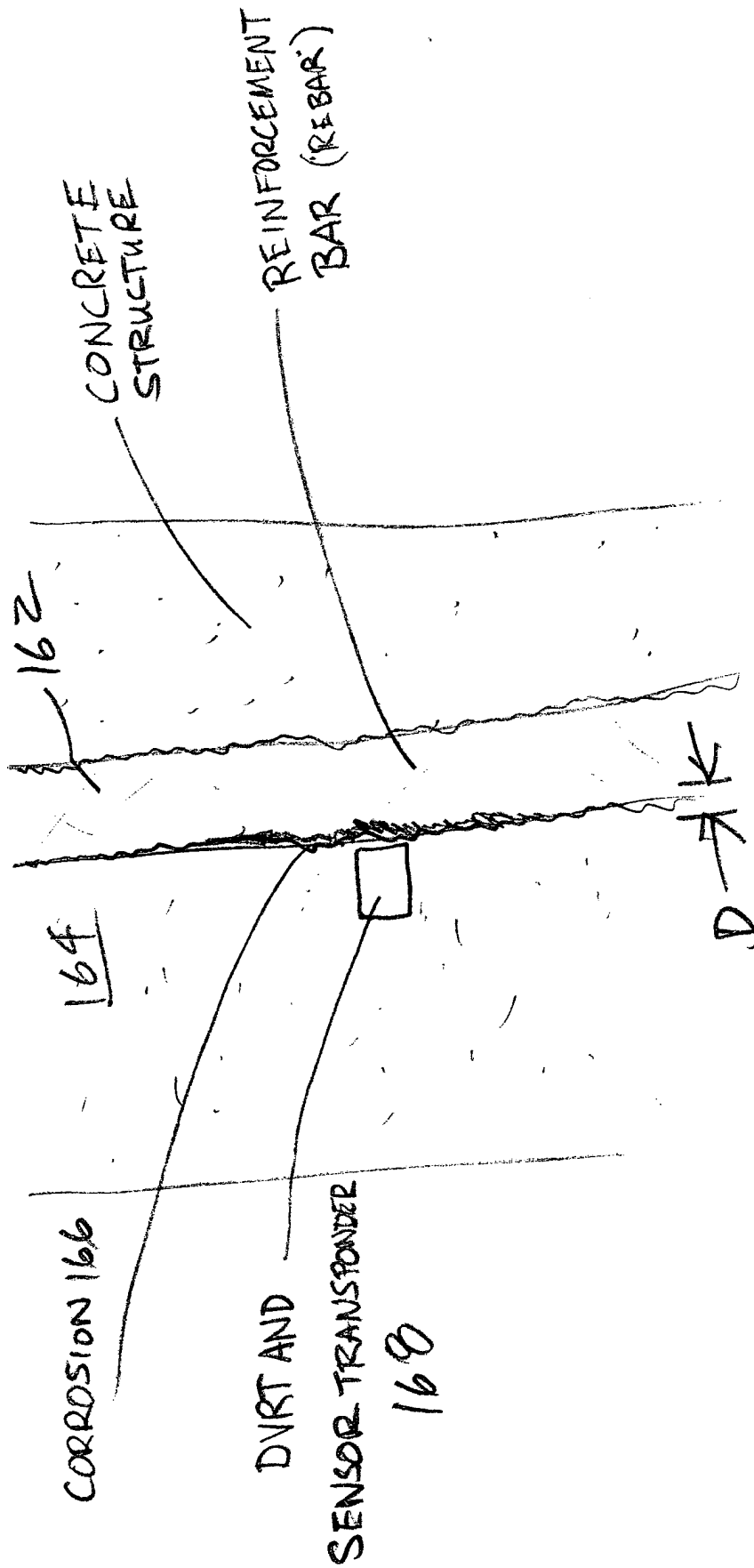
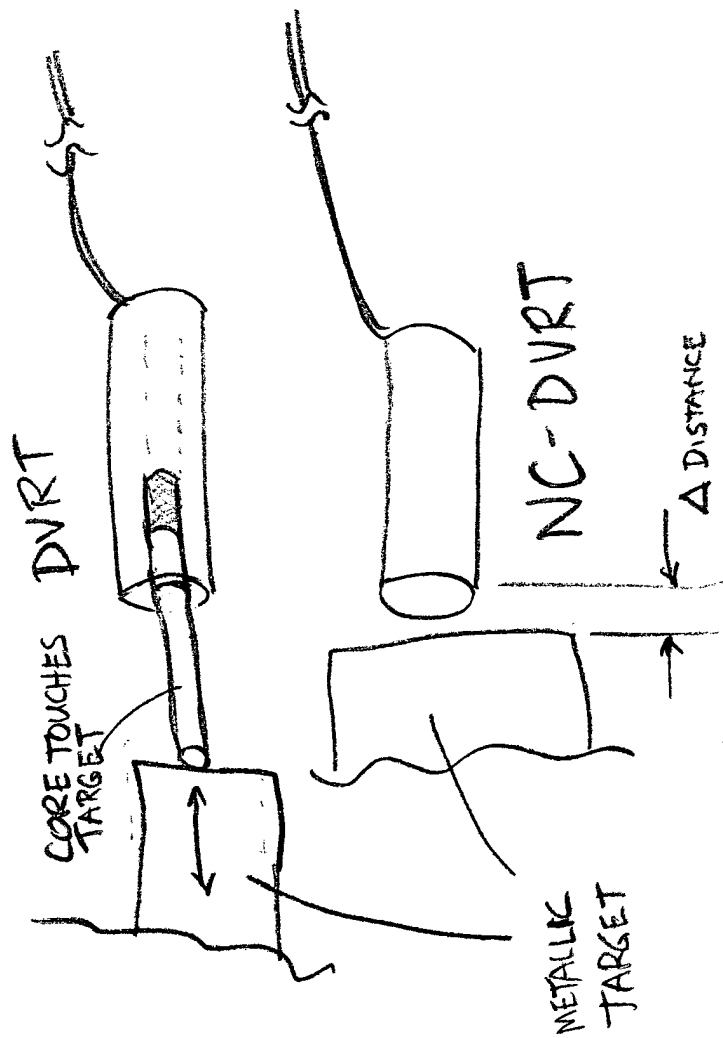


FIG. 17d

115-005

27-29



F16.17e

REMOTELY POWERED AND INTERROGATED
DVRT FOR FORCE OR PRESSURE
MEASUREMENT

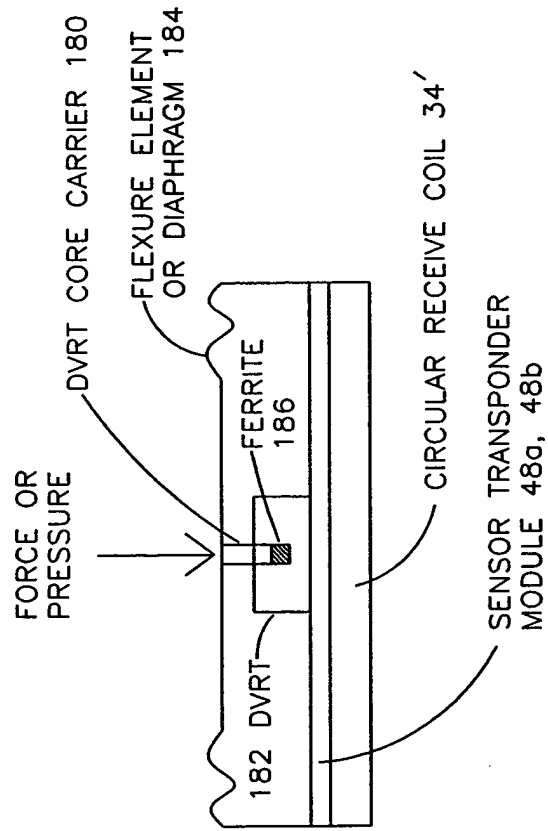


FIG. 18

115-005

28-29

REMOTELY POWERED AND INTERROGATED DVRT
FOR FORCE OR PRESSURE MEASUREMENT

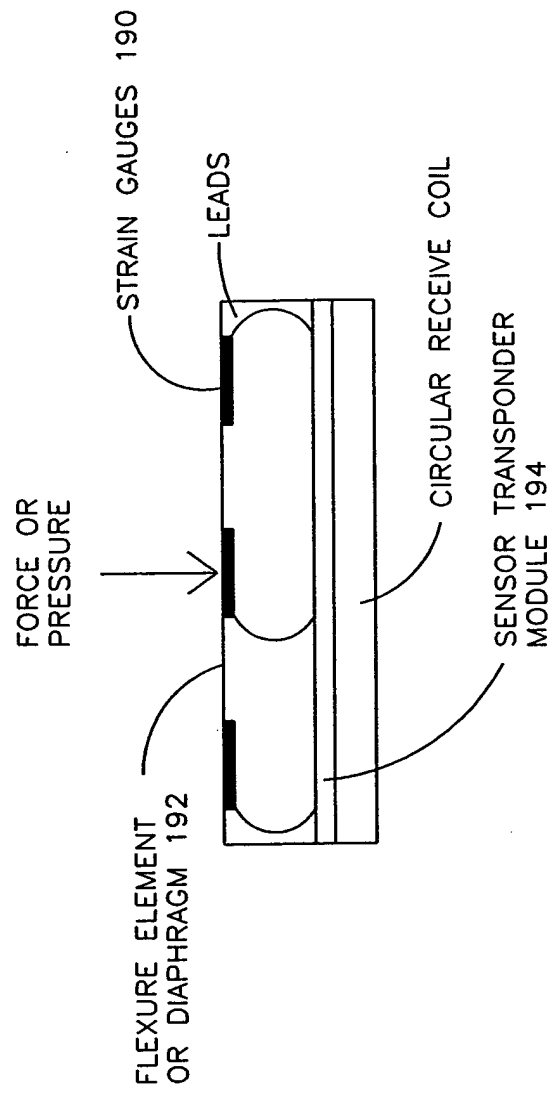


FIG. 19

115-005

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